

## EAST Search History

| Ref # | Hits   | Search Query   | DBs                             | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|---------------------------------|------------------|---------|------------------|
| L1    | 294807 | @pd>"20070619"   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:19 |
| L2    | 6      | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:19 |
| L3    | 1      | 1 AND L2   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:21 |
| L4    | 1      | 1 AND L2   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:21 |
| L5    | 6      | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:22 |
| L6    | 1      | 1 AND 5  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:22 |
| L7    | 6      | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:22 |
| L8    | 1      | 1 AND 7  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:22 |
| L9    | 9      | (concentration ADJ3 matrix) AND<br>(spectral ADJ data) AND wavelet | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:22 |
| L10   | 1      | 1 AND 9  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:23 |
| L11   | 281    | (principal ADJ component) AND<br>wavelet AND spectral AND image    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:23 |
| L12   | 30     | 1 AND 11   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:23 |
| L13   | 11     | (scor\$ ADJ3 matrix) AND (loading<br>ADJ3 matrix) AND wavelet      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:24 |
| L14   | 2      | 1 AND 13   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:24 |
| L15   | 74     | (principal\$ ADJ3 component\$) AND<br>SVD AND wavelet              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/11/26 10:24 |

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|     |      |  |                                 |    |    |                  |
|-----|------|--|---------------------------------|----|----|------------------|
| L16 | 10   | 1 AND 15   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:25 |
| L17 | 152  | (principal ADJ3 component\$) AND<br>wavelet AND concentration AND<br>image | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:25 |
| L18 | 12   | 1 AND L17  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:26 |
| L19 | 101  | (principal adj1 component) AND<br>(wavelet SAME threshold\$4)              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:26 |
| L20 | 4    | 1 AND L19  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:26 |
| S76 | 53   | keenan-m\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/02/06 16:27 |
| S77 | 31   | keenan-michael\$.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:21 |
| S78 | 3697 | (concentration matrix) AND<br>(spectral shape) AND wavelet                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:22 |
| S79 | 5    | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:22 |
| S80 | 7    | (concentration ADJ3 matrix) AND<br>(spectral ADJ3 shape) AND wavelet       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:49 |
| S81 | 8    | (concentration ADJ3 matrix) AND<br>(spectral ADJ data) AND wavelet         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:22 |
| S82 | 6    | (concentration ADJ matrix) AND<br>(spectral ADJ data) AND wavelet          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:33 |
| S83 | 5    | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:22 |
| S84 | 2    | (concentration ADJ intensity) AND<br>(spectral ADJ shape) AND wavelet      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:40 |
| S85 | 5    | (concentration ADJ matrix) AND<br>(spectral ADJ shape) AND wavelet         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:41 |

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|      |     |  |                                 |    |    |                  |
|------|-----|--|---------------------------------|----|----|------------------|
| S86  | 705 | (principal ADJ component) AND wavelet                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 14:43 |
| S87  | 365 | (principal ADJ component) AND wavelet AND spectral                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 15:17 |
| S88  | 251 | (principal ADJ component) AND wavelet AND spectral AND image           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:23 |
| S89  | 251 | (principal ADJ component\$) AND wavelet AND spectral AND image         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 16:54 |
| S90  | 0   | (principal ADJ component\$) AND wavelet AND concentrati AND image      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/14 16:54 |
| S91  | 140 | (principal ADJ component\$) AND wavelet AND concentration AND image    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:48 |
| S92  | 140 | (principal ADJ2 component\$) AND wavelet AND concentration AND image   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:48 |
| S93  | 140 | (principal ADJ3 component\$) AND wavelet AND concentration AND image   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:48 |
| S94  | 142 | (principal ADJ3 component\$) AND wavelet\$ AND concentration AND image | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:48 |
| S95  | 2   | (scor\$ ADJ3 matrix) AND (spectral ADJ3 shape) AND wavelet             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:53 |
| S96  | 9   | (scor\$ ADJ3 matrix) AND (loading ADJ3 matrix) AND wavelet             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:24 |
| S97  | 0   | (concentrtation\$ ADJ3 matrix) AND (shape ADJ3 matrix) AND wavelet     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 15:59 |
| S98  | 2   | (concentration\$ ADJ3 matrix) AND (shape ADJ3 matrix) AND wavelet      | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 16:00 |
| S99  | 0   | (principal\$ ADJ3 component\$) AND SVU AND wavelet                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 16:07 |
| S100 | 64  | (principal\$ ADJ3 component\$) AND SVD AND wavelet                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/26 10:24 |

## EAST Search History

|          |     |  |                                 |    |    |                  |
|----------|-----|--|---------------------------------|----|----|------------------|
| S10<br>1 | 877 | ((principal\$ ADJ3 component\$) OR SVD) AND wavelet  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 16:35 |
| S10<br>2 | 580 | ((principal\$ ADJ3 component\$) OR SVD) AND matrix AND wavelet                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 16:35 |
| S10<br>3 | 439 | ((principal\$ ADJ3 component\$) OR SVD) AND matrix AND image AND wavelet                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/18 16:39 |
| S10<br>4 | 259 | ((principal\$ ADJ3 component\$) OR SVD) AND matrix AND image AND wavelet AND compress\$4           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/19 08:42 |
| S10<br>5 | 0   | (data ADJ factor) AND (concentration ADJ matrix) AND (spectral ADJ shape) AND wavelet              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/19 08:44 |
| S10<br>6 | 2   | (data ADJ3 factor) AND (concentration ADJ3 matrix) AND (spectral ADJ3 shape) AND wavelet           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/19 09:09 |
| S10<br>7 | 7   | (concentration ADJ3 matrix) AND (spectral ADJ3 shape) AND wavelet                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/06/19 09:09 |
| S10<br>8 | 5   | "6754383"  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:00 |
| S10<br>9 | 0   | (spectral adj1 shape) AND compress\$4 AND (wavelet SAME threshold) AND (concentration adj1 matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:01 |
| S11<br>0 | 0   | (spectral adj2 shape) AND compress\$4 AND (wavelet SAME threshold) AND (concentration adj2 matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:02 |
| S11<br>1 | 1   | (spectral adj2 shape) AND compress\$4 AND (wavelet SAME threshold)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:03 |
| S11<br>2 | 1   | (spectral adj2 shapes) AND compress\$4 AND (wavelet SAME threshold)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:03 |
| S11<br>3 | 0   | (spectral adj2 shapes) AND transformed AND (wavelet SAME threshold)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:04 |
| S11<br>4 | 1   | (spectral adj2 shapes) AND transformed AND (wavelet SAME threshold\$4)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:09 |
| S11<br>5 | 2   | (spectral adj2 shapes) AND compress\$4 AND (wavelet SAME threshold\$4)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:13 |

## EAST Search History

|          |     |  |                                 |    |    |                  |
|----------|-----|--|---------------------------------|----|----|------------------|
| S11<br>6 | 2   | (spectral adj2 shape\$2) AND<br>compress\$4 AND (wavelet SAME<br>threshold\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:17 |
| S11<br>7 | 2   | (spectral adj2 shape\$2) AND<br>(wavelet SAME threshold\$4)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:18 |
| S11<br>8 | 100 | (principal adj1 component) AND<br>(wavelet SAME threshold\$4)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/11/07 11:18 |